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APPLICATION N	10.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/751,313		01/02/2004	Joseph J. Schottler	P06703US0-6027	2010	
34082	7590	01/25/2005		EXAMINER		
		IRM P.L.C.	TANG, MINH NHUT			
CAPITAL SQUARE 400 LOCUST, SUITE 200				ART UNIT	PAPER NUMBER	
	DES MOINES, IA 50309-2350			2829		
				DATE MAILED: 01/25/200	DATE MAILED: 01/25/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
Office Audieus Occurrence	10/751,313	SCHOTTLER, JOSEPH J.					
Office Action Summary	Examiner	Art Unit					
	Minh N. Tang	2829					
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with the c	orrespond nce address					
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a repl If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be timely within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timety. the mailing date of this communication. D (35 U.S.C. § 133).					
Status							
1)⊠ Responsive to communication(s) filed on <u>02 J</u>	lanuary 2004.	•					
	s action is non-final.						
3) Since this application is in condition for allowa	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposition of Claims							
4) Claim(s) 1-10 is/are pending in the application							
	4a) Of the above claim(s) is/are withdrawn from consideration.						
	Claim(s) <u>1-4,8 and 9</u> is/are allowed.						
•	· · · · · · · · · · · · · · · · · · ·						
8) Claim(s) are subject to restriction and/o	or election requirement.	,					
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <i>02 January 2004</i> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
	a priority under 35 LLS C & 110(a)	\(d\) or \(f\)					
12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) ☐ All b) ☐ Some * c) ☐ None of: 1. ☐ Certified copies of the priority documents have been received.							
Certified copies of the priority documents have been received in Application No							
application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
See the attached detailed Office action for a list	to the serunca sopies not reserve						
Attachment/c)							
Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413)							
2) Notice of References Cited (PTO-092) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate					
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 4/22/04.) 5) Notice of Informal F 6) Other:	Patent Application (PTO-152)					

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DETAILED ACTION

Information Disclosure Statement

1. The information disclosure statement (IDS) submitted on April 22, 2004 is considered by the examiner.

Claim Objections

2. Claims 5-7 and 10 are objected to because of the following informalities:

a/ in claim 5, since both the first circuit and the second circuit consist of a plurality of resistors, therefore, "the plurality of resistors" (line 4) should be -- the plurality of resistors of the second circuit --. Furthermore, "a second signal" (lines 6-7) should be -- the second signal --.

b/ in claim 6, lines 2-3, "a first and second transistor" should be -- a first transistor and a second transistor --

c/ in claim 7, "the high side of the circuit" (lines 7-8), "the low side of the circuit" (line 12), and "the current measured" (line 14) should be -- the high side current of the circuit --, -- the low side current of the circuit --, and -- the current measured by the second circuit --, respectively.

d/ claim 10 is objected to under 37 CFR 1.75 as being a substantial duplicate of claim 1. When two claims in an application are duplicates or else are so close in content that they both cover the same thing, despite a slight difference in wording, it is proper after allowing one claim to object to the other as being a substantial duplicate of the allowed claim. See MPEP § 706.03(k).

Appropriate correction is required.

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Conclusion

3. This application is in condition for allowance except for the following formal matters: the objections to the claims 5-7 and 10 set forth above.

Prosecution on the merits is closed in accordance with the practice under Exparte Quayle, 1935 C.D. 11, 453 O.G. 213.

A shortened statutory period for reply to this action is set to expire **TWO**MONTHS from the mailing date of this letter.

4. The following is a statement of reasons for the indication of allowable subject matter:

Claims 1-6 and 10 recite, inter alia, a method of measuring the current within a PWM driver comprising measuring the low side current with the second circuit; adding the low side current measurement to the first signal to create a second signal.

Claims 7-9 recite, inter alia, a circuit for measuring the current within a PWM driver comprising a second circuit electrically connected to the first circuit via the first signal and adapted to measure the current within the low side current of the circuit; said second circuit being capable of adding the current from the first signal with the current measured by the second circuit to create a second signal.

The art of record does not disclose the above limitations, nor would it be obvious to modify the art of record so as to include the above limitations.

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Galbiati et al. 6,804,131 PWM/Linear Driver For An Electromagnetic

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Load.

Weggel 6,320,370 Circuit With Improved Dynamic Response For

Measuring Current In Pulse Width Modulated

Amplifiers.

Weggel 5,629,616 Circuit For Measuring Current In Class-D

Amplifier.

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Minh N. Tang whose telephone number is (571) 272-1971. The examiner can normally be reached on M-F (7:00-3:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nestor R. Ramirez can be reached on (571) 272-2034. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

MINH NHUT TANG
PIMARY EXAMINER

01/18/05